

Operating and Service Manual

MODEL

DC6080

PART NUMBER

1008165-501

SERIAL NUMBER

20104



**AMPLIFIER
RESEARCH**

Souderton, PA 18964-9990 USA

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OPERATING INSTRUCTIONS

MODEL DC6080

WARNING:

**DO NOT EXCEED MAXIMUM POWER RATINGS. DO NOT DROP.
INTERNAL COMPONENTS ARE FRAGILE.**

Operation of the Model DC6080 is quite simple. The input signal is fed into the jack (J1) marked "INPUT" and the output is taken from the jack (J2) marked "OUTPUT". The input and output jacks on the unit are Type "N" (Female).

Forward coupled output is taken from jack (J3) marked "FWD", and reverse coupled output is taken from jack (J4) marked "REV". Both coupled output jacks on the unit are Type "BNC" (Female).

See Specification Sheet for detailed specifications.

REV -



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MODEL DC6080
Dual Directional Coupler
200 Watts CW
80 - 1000 MHz

The Model DC6080 is a dual directional coupler with excellent frequency range and power handling capability. The wide range assures flexibility in coupling medium power amplifiers to oscilloscopes, voltmeters, power meters, spectrum analyzers and other measuring instruments. The dual directional design allows the user to monitor both forward and reflected power, a much needed characteristic in RF susceptibility testing for amplifier overdrive protection, field control and load protection. Low insertion loss allows efficient coupling to the load while the 40 dB coupling factor is well matched to typical laboratory equipment.

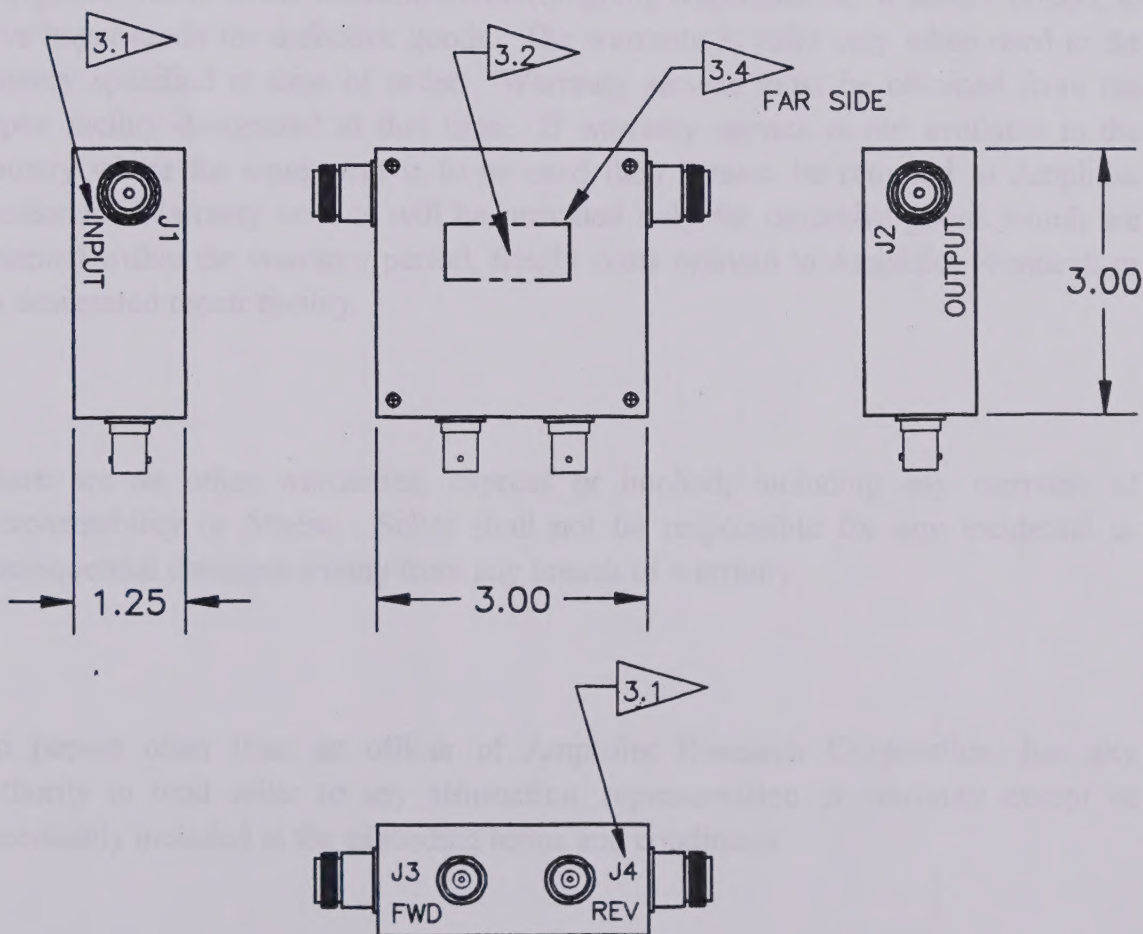
SPECIFICATIONS

Model DC6080

FREQUENCY RANGE	80 - 1000 MHz
POWER (Maximum Watts)	200 Watts CW, 1000 Peak
COUPLING FACTOR	40 dB $\pm$ 0.5 dB
DIRECTIVITY	
<i>Typical</i>	25 dB
<i>Minimum</i>	20 dB
INSERTION LOSS	0.2 dB maximum
MISMATCH TOLERANCE	Open or short, 200 watts
IMPEDANCE (Main Line)	50 ohms, VSWR 1.2:1 maximum
CONNECTORS	
<i>Main Line</i>	N female
<i>Coupled</i>	BNC female
WEIGHT	0.45 kg, 1.0 lb
SIZE (WxHxD)	7.62 x 7.62 x 2.86 cm 3.0 x 3.0 x 1.125 in

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DWG. NO.

1008165-101

SCALE
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SHEET

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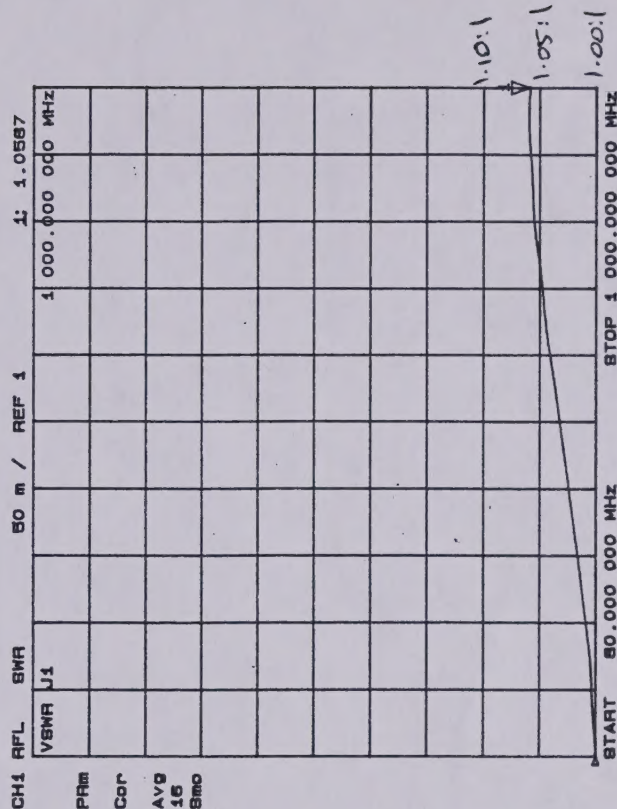
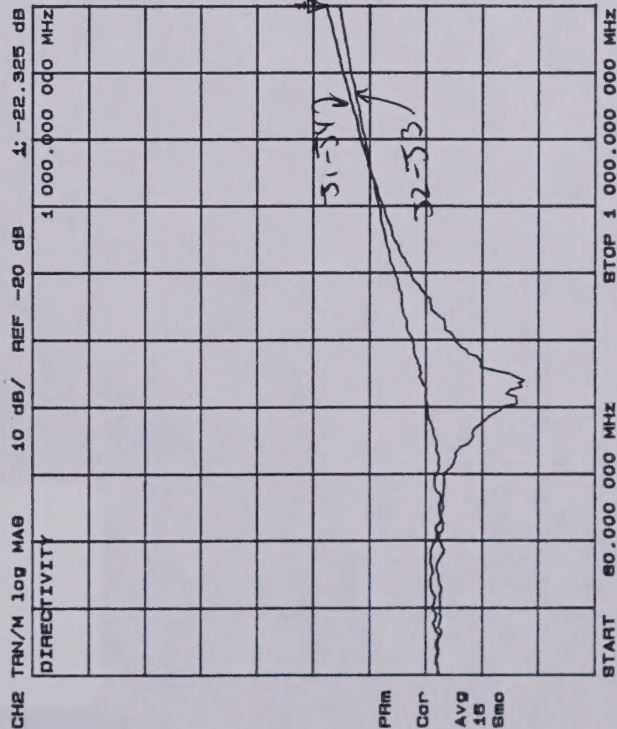
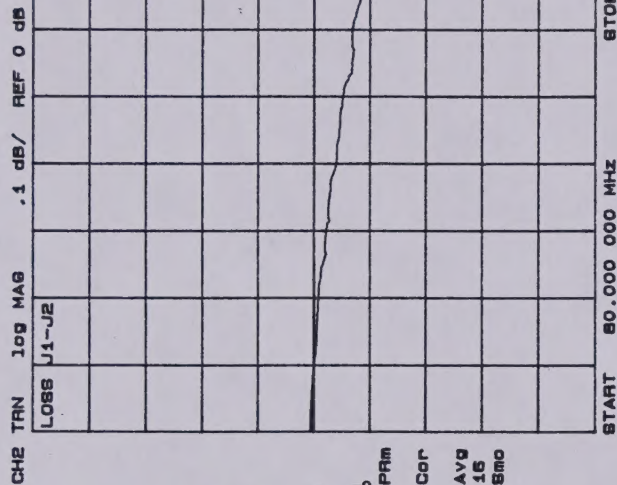
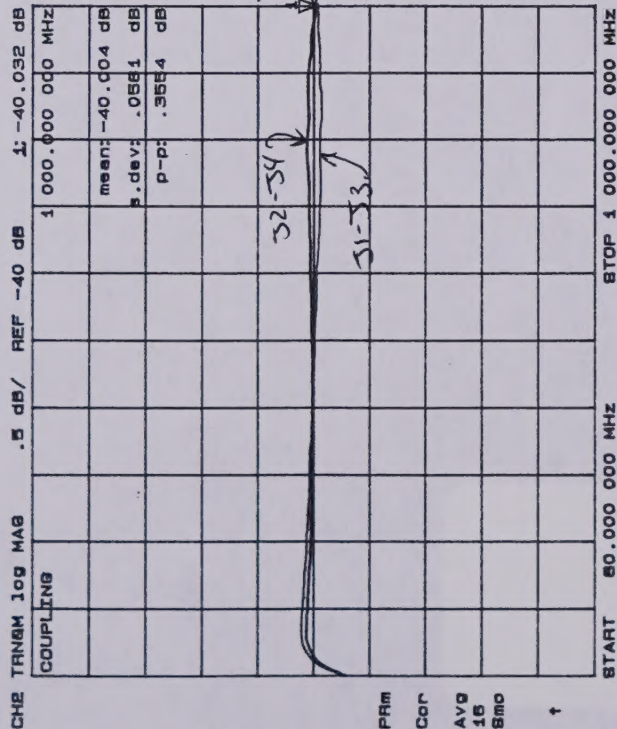
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WARRANTIES: LIMITATION OF LIABILITY

Seller warrants (i) that seller has title to the goods sold and (ii) that Amplifiers, Antennas, Directional Couplers and Field Monitoring Equipment will be free from defects in material and workmanship for a period of two (2) years from date of shipment shown on Amplifier Research invoice; other products and vacuum tubes will be free from defects in material and workmanship for a period of one (1) year. Seller's sole responsibility in fulfilling these warranties shall be to repair or replace any goods which do not conform to the foregoing warranties or, at seller's option, to give buyer credit for defective goods. The warranty is valid only when used in the country specified at time of order. Warranty service must be obtained from the repair facility designated at that time. If warranty service is not available in the country where the equipment is to be used then it must be returned to Amplifier Research. Warranty service will be provided only for defective goods which are returned within the warranty period, freight costs prepaid to Amplifier Research or its designated repair facility.

There are no other warranties, express or implied, including any warranty of merchantability or fitness. Seller shall not be responsible for any incidental or consequential damages arising from any breach of warranty.

No person other than an officer of Amplifier Research Corporation, has any authority to bind seller to any affirmation, representation or warranty except as specifically included in the preceding terms and conditions.



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